

Smelowskia holmgrenii Rollins (1950)**HOLMGREN SMELOWSKIA**

FAMILY: *Brassicaceae*, the mustard family.

STATUS: **Heritage Program SENSITIVE LIST, ranks: G2G3 S2S3**

USFWS/ESA: none. **STATE OF NEVADA:** none. **BLM:** none. **USFS:** none. **NNNPS:** none.

POPULATION CENSUS: **17 occurrences mapped** at 1.0 km (0.6 mi) separation, OR **18 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 587+**, total estimated **area unknown**. **TREND:** unknown.

IMPACTS AND MAJOR THREATS: Mining heavily in both Toiyabe and Toquima Mtns., keep close watch on both.

INVENTORY EFFORT: Not yet systematically surveyed. Most recent entered survey 1989, average year of last survey 1977. **Years since last entered survey** (percent of mapped records at various survey ages): **11-20 yrs:** 22.2%; **21-30 yrs:** 66.7%; **51+ yrs or unknown:** 11.1%.

LAND MANAGEMENT in decreasing predominance: Humboldt-Toiyabe National Forest, designated wilderness, U. S. Bureau of Land Management, private lands.

RANGE: Humboldt, Lander, Nye, Pershing, and White Pine counties, Nevada. **Nevada endemic.** Maximum **range dimension 303.1 km (188.3 mi)** excluding most disjunct record. **Type specimen** collected in Nye County.

ELEVATIONS RECORDED: 6500-11350 feet (1981-3459 meters).

HABITAT: Crevices, ledges, rubble, or small soils pockets on rock outcrops and cliffs, from high-elevation ridges to north-facing walls at lower elevations, on various rock types in the lower alpine, subalpine conifer, mountain sagebrush, and upper pinyon-juniper zones.

PHENOLOGY: flowering late-spring to summer. Range of most frequent **survey months:** June-July.

LIFE-FORM AND HABIT: perennial herb.

DESCRIPTION: A perennial herb with a basal rosette of erect leaves and stems about 1-1.5 dm tall. Small white flowers bloom June-August.

PHOTOGRAPHS: Tiehm (1989); Nevada Natural Heritage Program slide collection (1986-present) and files.

ILLUSTRATIONS: Mozingo and Williams (1980), Rollins (1950).

OTHER GENERAL REFERENCES (listed separately): Goodrich (1981), Rollins (1993).

SPECIFIC REFERENCES:

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